

# Doron L Grossman-Naples

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| CONTACT<br>INFORMATION | University of Illinois at Urbana-Champaign<br>Department of Mathematics<br>273 Altgeld Hall<br>1409 W. Green Street (MC-382)<br>Urbana, IL 61801   | <a href="mailto:doronlg2@illinois.edu">doronlg2@illinois.edu</a><br><a href="https://github.com/doronlgn">doronlgn.github.io</a> |
| RESEARCH<br>INTERESTS  | Elliptic cohomology, chromatic homotopy theory, spectral arithmetic geometry, and quantum field theory.  |  |
| EDUCATION              | <b>University of Illinois at Urbana-Champaign</b><br>Ph.D. Candidate, Mathematics (expected May 2026) <ul style="list-style-type: none"><li>• Advisor: Charles Rezk</li><li>• Prelim passed June 2023</li></ul> M.S. in Mathematics, August 2021<br><br><b>University of California at Berkeley</b><br>B.A. in Mathematics, May 2019 <ul style="list-style-type: none"><li>• Highest honors in mathematics, highest distinction in general scholarship</li><li>• Minor in physics</li></ul>  |  |
| HONORS AND<br>AWARDS   | 2019   | Departmental Citation (Valedictorian), Mathematics Department<br>University of California at Berkeley                            |
|                        | 2019   | Paul Chernoff Memorial Prize<br>University of California at Berkeley   |
| PREPRINTS              | <i>Complex Orientations are Partial Strictifications of the Unit</i> (2023). Manuscript submitted for publication.<br><br><i>Finite Manifolds and Minimal Finite Models of Closed Surfaces</i> (2018).   |  |
| RESEARCH TALKS         | <i>A Deligne-Mumford Stratification of Elliptic Cohomology with Level Structure</i> , Graduate Student Homotopy Theory Seminar, University of Illinois at Urbana-Champaign (October 2024).<br><br><i>Complex Orientations and Strict Elements</i> , Graduate Student Homotopy Theory Seminar, University of Illinois at Urbana-Champaign (October 2023).<br><br><i>Towards a Chromatic Langlands Program</i> , Graduate Student Homotopy Theory Seminar, University of Illinois at Urbana-Champaign (March 2023).<br><br><i>Finite Spaces and Finite Models</i> , Graduate Student Homotopy Theory Seminar, University of Illinois at Urbana-Champaign (September 2020). |  |
| EXPOSITORY TALKS       | <i>Multiplicative Structures in Equivariant Homotopy Theory</i> , Equivariant Homotopy Theory Learning Seminar, University of Illinois at Urbana-Champaign (March 2024).<br><br><i>Higher Galois Descent for Chromatic Localizations of K-theory</i> , Telescope Conjecture Learning Seminar, University of Illinois at Urbana-Champaign (February 2024).  |  |

*Orientations of Formal Groups*, Graduate Student Homotopy Theory Seminar, University of Illinois at Urbana-Champaign (February 2024).

*The Chromatic Fracture Square*, Chromatic Homotopy Theory Reading Seminar, University of Illinois at Urbana-Champaign (April 2023).

*Chromatic Homotopy: What, Why, and How*, Graduate Student Homotopy Theory Seminar, University of Illinois at Urbana-Champaign (October 2022).

*Elliptic Cohomology and Conformal Field Theories*, Graduate Student Geometry and Topology Seminar, University of Illinois at Urbana-Champaign (September 2022).

*An Informal Introduction to Formal Groups*, Graduate Student Commutative Algebra and Algebraic Geometry Seminar, University of Illinois at Urbana-Champaign (April 2022).

*Simplicial Localizations and How to Find Them*, Graduate Student Homotopy Theory Seminar, University of Illinois at Urbana-Champaign (October 2021).

POSTER  
PRESENTATIONS

*Complex Orientations as  $\mathbb{E}_2$ -Strictifications of the Unit*, Graduate Student Topology and Geometry Conference 2024, Michigan State University (April 2024).

SEMINAR AND  
CONFERENCE  
ORGANIZATION

Chromatic Homotopy Theory Learning Seminar (co-organized with Yigal Kamel), University of Illinois at Urbana-Champaign, Spring 2023.

Graduate Student Homotopy Theory Seminar, University of Illinois at Urbana-Champaign, Fall 2021–Spring 2022.

Higher Category Theory Reading Group, University of Illinois at Urbana-Champaign, Fall 2021–Spring 2022.

WORKSHOPS AND  
SUMMER SCHOOLS

*EWM-EMS Summer School: Chromatic Homotopy Theory and Friends*, Mittag-Leffler Institute; Djursholm, Sweden (June 2022).

*Sparsity of Algebraic Points (Virtual School)*, Mathematical Sciences Research Institute; Berkeley, California (June 2021).

*University of Chicago Math REU*, University of Chicago; Chicago, Illinois (Summer 2018).

TEACHING  
EXPERIENCE

|        |      |   |
|--------|------|---|
| Fall   | 2024 | Teaching Assistant, Multivariable Calculus (Math 241)                 |
| Spring | 2024 | Teaching Assistant, Introduction to Differential Equations (Math 285) |
| Spring | 2024 | Grader, Introduction to Abstract Algebra (Math 417)                   |
| Spring | 2024 | Grader, Abstract Algebra I (Math 500)                                 |
| Fall   | 2023 | Grader, Abstract Algebra I (Math 500)                                 |
| Fall   | 2023 | Grader, Algebraic Topology II (Math 526)                              |
| Fall   | 2023 | Grader, Honors Real Analysis (Math 424)                               |
| Fall   | 2023 | Grader, Modern Algebraic Geometry (Math 512)                          |
| Spring | 2023 | Grader, Algebraic Topology (Math 525)                                 |
| Spring | 2023 | Grader, Honors Abstract Linear Algebra (Math 416)                     |
| Spring | 2023 | Grader, Introduction to Algebraic Geometry (Math 511)                 |
| Fall   | 2022 | Grader, Introduction to Abstract Algebra (Math 417)                   |

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|--------|------|---|
| Fall   | 2022 | Grader, Real Analysis (Math 540)  |
| Spring | 2022 | Grader, Abstract Linear Algebra (Math 416)                                    |
| Spring | 2022 | Grader, Algebraic Topology I (Math 525)                                       |
| Spring | 2022 | Grader, Functional Analysis (Math 541)  |
| Fall   | 2021 | Teaching Assistant, Linear Algebra with Computational Applications (Math 257) |
| Spring | 2021 | Grader, Introduction to Abstract Algebra (Math 417)                           |
| Spring | 2021 | Grader, Introduction to Abstract Algebra II (Math 418)                        |
| Fall   | 2020 | Grader, Fundamental Mathematics (Math 347)                                    |
| Fall   | 2020 | Grader, Introduction to Abstract Algebra (Math 417)                           |
| Spring | 2020 | Grader, Introduction to Discrete Mathematics (Math 213)                       |
| Spring | 2020 | Teaching Assistant, Multivariable Calculus (Math 241)                         |
| Fall   | 2019 | Teaching Assistant, Calculus I (Math 221)                                     |

#### SERVICE

**Graduate Student Orientation Panel**, Department of Mathematics, University of Illinois at Urbana-Champaign; Urbana, Illinois (Fall 2022).

**Graduate Student Open House Panel**, Department of Mathematics, University of Illinois at Urbana-Champaign; Urbana, Illinois (Spring 2022).

**Graduate Student Peer Mentoring Program**, Department of Mathematics, University of Illinois at Urbana-Champaign; Urbana, Illinois (Fall 2021).

#### OTHER SKILLS

Languages: English, Italian.

#### REFERENCES

**Charles Rezk**, Professor, Department of Mathematics, University of Illinois at Urbana-Champaign, (217) 265-6309, [rezk@illinois.edu](mailto:rezk@illinois.edu).